**SECTION 29.   FOREIGN CURRENCY**

**29.1 GENERAL.**
This section describes the mechanized update of obligations relating
to foreign currency disbursements when the recorded US dollar value is
affected by foreign currency exchange rate fluctuation, and the
current status of obligations using the current or budgeted foreign
currency exchange rates.

**29.2 DEFINITIONS.**

   a. Foreign Currency Code.  A 2-position alphanumeric or special
character assigned by the AFO to identify each foreign currency
exchange rate.  Enter this code in positions 51-52 of the TRT when
obligations (DSRs) are established.

   b. Foreign Currency Exchange Rate.  The number of units of a
foreign currency that is required to equal one US dollar.  This value
is carried to the sixth decimal position; therefore, it is input as a
14-position rate (XXXXXXX.XXXXX) with the eighth position being the
actual decimal point.  For example:  Mexican pesos would be expressed
as 0000022.713400, meaning it takes that many pesos to equal one US
dollar.

   c. Foreign Currency Conversion File.  This file links a foreign
currency code to a foreign currency exchange rate, and is kept as a
Permanent Disk File (VBQE1DUNDD30).  A maximum of 1296 codes and rates
can be kept for each AFO.

**29.3 RATE INITIALIZATION AND DELETION (OPTION 2).**

   a. This is known as option 2 and will update only the Foreign
Currency Conversion File (paragraph 29.2c).  The Reports and Analysis
Division prepares as many rate changes as necessary to load new codes
and rates, or delete old codes and rates in the Foreign Currency
Conversion File for its AFO.  Create the control record per figure 29-
2 and schedule program NBQE10.

   b. The control records are edited by program NBQE10.  If error-
free, NBQE10 updates the Foreign Currency Conversion File.  The
ABQE1MUNPL40 listing is provided which shows the results of the edits.
Rejected records should be corrected and resubmitted.  See figure 29-
5.

**29.4 FOREIGN CURRENCY FLUCTUATION UPDATES (OPTION 1).**
Due to fluctuations in the foreign currency exchange rates, DSRs for
obligations payable in foreign currencies must be adjusted
periodically to identify the latest foreign currency exchange rate.
See paragraph 29.5 for special foreign currency fluctuation
procedures.  Reports and Analysis Division should request an update
whenever there is a significant change in the official exchange rate,


which would affect the total amount of unliquidated obligations
recorded at an older rate.  Use this procedure to update the rates

loaded in the conversion file and the pseudo to update the obligations in DSRs.

a. Only one rate change update per AFO can be processed in an update cycle.  Enter only those codes and rates which need to be updated.  Create the control record per figure 29-1 and schedule program NBQE10.

b. If the rate change update is in error, a ABQE1PUNPL10 listing is created to indicated the error.  Correct the error and resubmit.

c. If the rate change update is error-free, the conversion file is updated.  The DSR file is screened for DSRs with currency codes matching those, which were updated.  Transactions to increase or decrease the appropriate Bal-IDs are created on an output disk file (ABQE1CUNDD20) that is used for PSUPRB processing to update the BQ database.  This allows transactions to be treated as if they input through a remote device.  Actual PSUPRB processing is accomplished in accordance with AFCSM 33-217.

d. An ABQE1PUNPL10 listing is created identifying the beginning balance, the amount of change, and the new balance for the DSRs affected by the rate changes.  See figure 29-4.  The list is in sequence by currency code, allotment or appropriation, MFP or BPAC, EEIC, RC/CC, document number, and Bal-ID.  Totals are printed at the MFP or BPAC level, the allotment or appropriation level, and currency code level.  Reports and Analysis Division should use this list and the list of processed PSUPRB rate changes to ensure the proper adjustments were made.

**29.5 SPECIAL FOREIGN CURRENCY FLUCTUATION PROCEDURES.**
Certain designated currencies have special currency fluctuation procedures designed to give a means of budgeting, funding, and accounting for gains and losses caused by exchange rate fluctuations (reference DoDFMR, Vol. 6A, Chap 7, Appendix C at website http://www.dtic.mil/comptroller/fmr/).  For these designated currencies, enter obligations in the accounting records at the budget rate.  Enter the foreign currency code in the DSR per paragraph 29.2a.  Do not adjust recorded amounts when the exchange rate fluctuates.  Bases with locally funded fund codes 25, 30, 83, or 89 foreign currency obligations must establish a unique foreign currency code for these obligations.  Establish a separate code for each different budget rate.  Enter the budget rate in foreign currency units per dollar (to six decimal places) in the load rate change for each currency.

**29.6 FOREIGN CURRENCY STATUS LIST (OPTION 3).**
Reports and Analysis Division may request an ABQE1QUNPL20 listing, which identifies current balances of DSRs with selected currency codes.  See figure 29-6.  Create the control record and schedule program NBQE10 as outlined in figure 29-3.

a. Up to 25 different currency codes may be requested per record. Create as many records as necessary within the ABQE1AUNDC10 file. Valid currency codes are any two position combination of A-Z, 0-9, and

special characters <, >, [, ], /, \, +, -, #, (, ), :, =, %, !, &, ',
;, ?, ^, ", ,, _, {, }, |, ~, ., and @.  Invalid characters are $, *,
and `.  Currency codes will be locally assigned by the AFO.

    b. The ABQE1QUNPL20 listing is in the same format and sequence as
the ABQE1PUNPL10 listing except that only the current balances are
identified.  These balances are summarized at the same level as well.

    c. The list of unliquidated foreign currency related obligations
must be used to prepare the monthly RCS DD-COMP(M)1506, Foreign
Currency Fluctuations Report, submitted by base level AFOs to
MAJCOM/ACF.  File a copy of this list, PCN SH069-E13, with the RCS DD-
COMP(M)1506 message report.  Reference DFAS-DE 7010.1-R for manual
message reporting requirements.

**NOTE 1**:  Depending upon your printer's capability, certain special
characters (e.g., {, }, or ~) may appear as different characters on
printed output listings.

**NOTE 2:  If processing COOF related transactions, do not use special
characters (e.g., "@", "_", or "#").**

**29.7 DAILY PROCESSING.**
When DSRs are established for obligations that will be paid in foreign
currency, enter the appropriate currency code in positions 51-52
(first two positions of PEC/For-Others ADSN field) of the TRT.  The
exchange rate used to establish the dollar obligation must be the same
as the rate currently loaded in the conversion file.  Also, post the
rate and the US dollar amount to the obligating document.

**29.8 INQUIRIES.**
To inquire against the Foreign Currency Conversion File, simply call
up frame FCINQ and transmit.  Without entering any additional data,
all currency codes and their respective exchange rates for the AFO
making the inquiry will be displayed.

**29.9. CURRENCY CONVERSION.**
The conversion of US dollars to units of foreign currency (and vice
versa) can be done by this input, using frame FCINQ:

    a. Remote entries are as follows:

        (1) Currency Code.  Enter applicable code.

        (2) Type Currency.  Enter "F", if converting a foreign currency
to US dollars.  Enter "U", if converting US dollars to a foreign
currency.

        (3) Amount.  Enter the amount or quantity of currency to be con-
verted.  Entry is ten positions with an assumed two decimal positions.
For example, enter two dollars as 200 or two pesos as 200.

    b. Computation:

(1) The US dollar value equivalent is found by dividing the quantity of the foreign currency by the exchange rate in the Foreign Currency Conversion File.

(2) The quantity of foreign currency is found by multiplying the input US dollar value by the exchange rate in the Foreign Currency Conversion File.

c. Edits.  The input rate inquiry is checked to ensure that the currency code and type currency is valid.  If the input type currency is not "U" or "F", the response is "REJ: 0010 INVALID ACTION CODE". If the input currency code does not match an established currency code in the Foreign Currency Conversion File, the response is "REJ: 0029 INVALID CURRENCY CODE".

d. Responses:

(1) If the input amount is a foreign currency (F in position 5), the response is "US DOLLAR EQUIV = $XX,XXX,XXX.XX".

(2) If the input amount is US dollars (U in position 5), the response is "FOREIGN CURRENCY EQUIV = $XX,XXX,XXX.XX".

TITLE:  FOREIGN CURRENCY RATE CHANGES

FILE-ID:  ABQE1AUNDC10

FORMAT:  (USE MICROCOMPUTER FRAME BQ-FCR1)

| DATA ELEMENT | POSITIONS | REMARKS |
|---|---|---|
| AFO Code | 1 | |
| | 2 | Blank. |
| 1st Currency Code | 3-4 | |
| | 5 | Blank. |
| 1st Exchange Rate | 6-19 | |
| | 20 | Blank. |
| 2nd Currency Code | 21-22 | If applicable. |
| | 23 | Blank. |
| 2nd Exchange Rate | 24-37 | If applicable. |
| | 38 | Blank. |
| 3rd Currency Code | 39-40 | If applicable. |
| | 41 | Blank. |
| 3rd Exchange Rate | 42-55 | If applicable. |
| | 56 | Blank. |
| 4th Currency Code | 57-58 | If applicable. |
| | 59 | Blank. |
| 4th Exchange Rate | 60-73 | If applicable. |
| | 74-77 | Blank. |
| Option Indicator | 78-80 | Must be "OP1". |

Figure 29-1.  Table and DSR Update Format, Option 1.

**NOTE:**  Currency codes may be entered in any sequence.  Do not leave a
currency code field blank unless there are no more codes to be
entered.  Each code entered must have a corresponding rate entered as
a 14-position number.  The first seven positions identify the number
of whole units of the foreign currency, the eighth position is a
decimal, and the last six positions are the fractional units of a
foreign currency.

Figure 29-1.  Table and DSR Update Format, Option 1.  (Cont'd)

TITLE:  FOREIGN CURRENCY RATE CHANGES

FILE-ID:  ABQE1AUNDC10

FORMAT:  (USE MICROCOMPUTER FRAME BQ-FCR2)

| DATA ELEMENT | POSITIONS | REMARKS |
|---|---|---|
| AFO Code | 1 | |
| | 2 | Blank. |
| 1st Currency Code | 3-4 | |
| | 5 | Blank. |
| 1st Exchange Rate | 6-19 | |
| | 20 | Blank. |
| 2nd Currency Code | 21-22 | If applicable. |
| | 23 | Blank. |
| 2nd Exchange Rate | 24-37 | If applicable. |
| | 38 | Blank. |
| 3rd Currency Code | 39-40 | If applicable. |
| | 41 | Blank. |
| 3rd Exchange Rate | 42-55 | If applicable. |
| | 56 | Blank. |
| 4th Currency Code | 57-58 | If applicable. |
| | 59 | Blank. |
| 4th Exchange Rate | 60-73 | If applicable. |
| | 74-77 | Blank. |
| Option Indicator | 78-80 | Must be "OP2". |

Figure 29-2.  Foreign Currency Rate Changes, Option 2.

**NOTE 1:** To update a rate and create the pseudo file to update the BQ accounting system at the same time, run Option 1.  See Table and DSR Update Format, Option 1, figure 29-1. To add a new rate to the VBQE1DUNDD30 conversion file or delete a rate currently on the conversion file that is no longer used, run Option 2.

**NOTE 2:** Currency codes may be entered in any sequence.  Do not leave a currency code field blank unless there are no more codes to be entered.  Each code entered must have a corresponding rate entered as a 14-position number.  The first seven positions identify the number of whole units of the foreign currency, the eighth position is a decimal, and the last six positions are the fractional units of a foreign currency.  An amount entered as "0000000.000000" during an initialization process or Option 2 update will cause the deletion of that rate from the conversion file if a match is found; otherwise, the rate change will reject.

Figure 29-2.  Foreign Currency Rate Changes, Option 2.  (Cont'd)

TITLE:  FOREIGN CURRENCY STATUS REQUEST

FILE-ID:  ABQE1AUNDC10

FORMAT:  (USE MICROCOMPUTER FRAME BQ-FCR3)

| DATA ELEMENT | POSITIONS | REMARKS |
|---|---|---|
| AFO Code | 1 | |
| | 2 | Blank. |
| 1st Currency Codes | 3-4 | See note. |
| | 5 | Blank. |
| Additional Currency Code | 6-77 | If applicable.  See note. |
| Option Indicator | 78-80 | Must be "OP3". |

**NOTE:**  To select all currency codes, enter asterisks (**) in positions 3-4, and leave positions 5-77 blank.  If only one currency code is desired, enter that code in positions 3-4, and leave positions 5-77 blank.  If additional codes are desired, enter those codes starting in position 6, and leave a blank between each code.

Figure 29-3.  Foreign Currency Status Request, Option 3.

PREPARED: 01 JUN 08              FOREIGN CURRENCY UPDATE        (OPTION 1)                    PCN SH069-E12

                        AFO = 0      CURRENCY CODE = 1B      OLD RATE = 00236.7395     NEW RATE = 00118.3698

FT   APPROPRIATION    ALLOT    MFP   BPAC
**************************************************
     EEIC    RCCC   PC   ADDRESSES        DOCUMENT IDENTITY      BID     OLD DSR BALANCE            DIFFERENCE      NEW DSR BALANCE

L                  2X338071   B8

     572     975850  S    DA00044  PA00262  OMORD179300002        U          103.37               103.37             206.74

                    TOTAL BY  MFP/BPAC          B8                                                103.37
                    TOTAL BY  APPN/ALLOT             2X338071                                     103.37

L                  2X448071   B8

     573     975580  S    D045351  P086910  O6760179400014        U         1,832.54             1,832.54           3,665.08

                    TOTAL BY  MFP/BPAC          B8                                              1,832.54
                    TOTAL BY  APPN/ALLOT             2X448071                                   1,832.54

L                  2X458071   B8

     59290   4E5772  S    D045361  P067241  BF6319792D0002        O          953.16               953.16           1,906.32

                    TOTAL BY  MFP/BPAC          B8                                                953.16
                    TOTAL BY  APPN/ALLOT             2X458071                                     953.16


                    TOTAL BY  CURRENCY CODE        1B                                           2,889.07


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                                         END PAGE    7




Figure 29-4.  Foreign Currency Update, Option 1.

PREPARED: 01 JUN 08            FOREIGN CURRENCY INITIALIZATION (OPTION 2)            PCN SH069-E15


AFO    CODE    RATE      CODE    RATE      CODE    RATE      CODE    RATE      CODE    RATE       REMARKS

 0     1N   00000.0000   12   00000.0000   1G   00000.0000   1H   00000.0000   14   00000.0000      *** UPDATED ***
 0     1A   00000.0000   1B   00000.0000   1C   00000.0000   1D   00000.0000   1E   00000.0000      *** UPDATED ***
 0     1Z   00000.0000   1Y   00000.0000   1W   00000.0000   1X   00000.0000   1V   00000.0000      *** UPDATED ***
 0     11   00000.0000   13   00000.0000   15   00000.0000   16   00000.0000   17   00000.0000      *** UPDATED ***
 0     1F   00000.0000   1S   00000.0000   1Q   00000.0000   19   00000.0000   18   00000.0000      *** UPDATED ***


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                              END PAGE    1


Figure 29-5.  Foreign Currency Initialization, Option 2.

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PREPARED: 01 JUN 08              FOREIGN CURRENCY STATUS      (OPTION 3)                 PCN SH069-E13

                      AFO = 0      CURRENCY CODE = 1C                 RATE = 00001.8000

FT   APPROPRIATION   ALLOT    MFP   BPAC
*********************************************
    EEIC   RCCC    PC   ADDRESSES        DOCUMENT IDENTITY     BID                        BALANCE

A                831 8016        72296

   522              S   DA00098  PA00079  BUPP1009100086    X    O                     28,244.14
                                                                U                       2,427.88
   522              S   D052417  PA00079  BUPP1009100545    X    O                     93,200.00
   52260            S   D052395  PA00079  BUPP1009100431    X    O                     14,690.00
   529              S   D052497  P107681  BUPP1009100110    X    O                        150.20
   532              S   D052419  P107680  BUPP1009100545    X    O                      5,700.00

                    TOTAL BY  MFP/BPA          72296                                  144,412.22
                    TOTAL BY  APPN/ALLOT                 831 8016                     300,140.90

A                831 8032        72141

   56908            S   D037127  P101925  BGRE1009100009    X    O                        376.37

                    TOTAL BY  MFP/BPAC         72141                                      376.37

A                831 8032        72152

   471              S   D037132  P101928  BGRE1009100017    X    O                      1,415.49

                    TOTAL BY  MFP/BPAC         72152                                    1,415.49

A                831 8032        72262

   570              S   D037133  P101933  BGRE1009100019    X    O                      6,808.63

                    TOTAL BY  MFP/BPAC         72262                                    6,808.63
                    TOTAL BY  APPN/ALLOT                 831 8032                       8,600.49

                    TOTAL BY  CURRENCY CODE        1C                               3,333,242.92

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                                      END PAGE    125
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Figure 29-6.  Foreign Currency Status, Option 3.